	- 03/9 OIPE
	CRF Errors Corrected by the STIC Systems Branch CRF Processing Date: 3/25/2 Edited by:
N	Changed a file from non-ASCII to ASCII
	Changed the margins in cases where the sequence text was 'wrapped' down to the next line.
	Edited a format error in the Current Application Data section, specifically:
•	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
•	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
•	Deleted extra, invalid, headings used by an applicant, specifically:
•	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
•	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
-	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
C	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (errollue to a Patentin bug). Sequences corrected:
_	Other:
-	

Action. DO NOT send a copy of this form.

3/1/95



RAW SEQUENCE LISTING

DATE: 03/25/2002

PATENT APPLICATION: US/09/722,544A

TIME: 12:43:36

Input Set : A:\07334-362001.txt

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3 <110> APPLICANT: Hong, Chen
        Freimer, Nelson B.
6 <120> TITLE OF INVENTION: METHODS OF DIAGNOSING NEUROPSYCHIATRIC DISORDERS
8 <130> FILE REFERENCE: 07334-362001
10 <140> CURRENT APPLICATION NUMBER: 09/722,544A
11 <141> CURRENT FILING DATE: 2000-11-28
13 <150> PRIOR APPLICATION NUMBER: 09/236,134
14 <151> PRIOR FILING DATE: 1999-01-22
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17 <151> PRIOR FILING DATE: 1998-03-16
19 <150> PRIOR APPLICATION NUMBER: 60/088,312
20 <151> PRIOR FILING DATE: 1998-06-05
22 <150> PRIOR APPLICATION NUMBER: 60/106,056
23 <151> PRIOR FILING DATE: 1998-10-28
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31 <212> TYPE: DNA
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                                                                         180
42 gttcttagct cactgaagcc tcaaattcct gggttcaagt gaccetecca ceteageece
                                                                          240
43 atgaggacct gggactacag gacacagcta aatccctgac acgg atg aaa att aaa
                                                                          296
                                                     Met Lys Ile Lys
45
47 gca gag aaa aac gaa ggt cct tcc aga agc tgg tgg caa ctt cac tgg
                                                                          344
48 Ala Glu Lys Asn Glu Gly Pro Ser Arg Ser Trp Trp Gln Leu His Trp
                                             15
                       . 10
51 gga gat att gca aat aac agc ggg aac atg aag ccg cca ctc ttg gtg
                                                                          392
52 Gly Asp Ile Ala Asn Asn Ser Gly Asn Met Lys Pro Pro Leu Leu Val
                                         30
55 ttt att gtg tgt ctg ctg tgg ttg aaa gac agt cac tgc gca ccc act
                                                                          440
56 Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala Pro Thr
                 40
                                     45
59 tgg aag gac aaa act gct atc agt gaa aac ctg aag agt ttt tct gag
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60 Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe Ser Glu
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DATE: 03/25/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/722,544A TIME: 12:43:36

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Output Set: N:\CRF3\03222002\I722544A.raw

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64	Val	Glv	Glu	Ile	Asp	Ala	Asp	Ğlu	Glu	Val	Lys	Lys	Ala	Leu	Thr	G1	У	
65		70					75					80						
67	att	aad	caa	atg	aaa	atc	atg	atg	gaa	aga	aaa	gag	aag	gaa	cac	ac	C	584
68	Ile	Lys	Gln	Met	Lys	Ile	Met	Met	Glu	Arg	Lys	Glu	Lys	Glu	His	TI	LT.	
69	85					90					95					T	10	
71	aat	cta	atq	agc	acc	ctg	aag	aaa	tgc	aga	gaa	gaa	aag	cag	gag	gc	c	632
72	Asn	Leu	Met	Ser	Thr	Leu	Lys	Lys	Cys	Arg	Glu	Glu	Lys	Gln	GLU	Al	.a	
73			•		105					110					TTO			
75	ctq	aaa	ctt	ctg	aat	gaa	gtt	caa	gaa	cat	ctg	gag	gaa	gaa	gaa	ag	13	680
76	Leu	Lys	Leu	Leu	Asn	Glu	Val	Gln	Glu	His	Leu	Glu	Glu	GLu	Glu	Αı	rg	
77				120					125					T30				
70	cta	tqc	cgg	gag	tct	ttg	gca	gat	tcc	tgg	ggt	gaa	tgc	agg	tct	t	ic	728
80	Leu	Cys	Arg	Glu	Ser	Leu	Ala	Asp	Ser	${\tt Trp}$	Gly	Glu	Cys	Arg	Ser	C2	7S	
81			1.35					140					145					
83	ctq	qaa	aat	aac	tgc	atg	aga	att	tat	aca	acc	tgc	caa	cct	agc	t	13	776
84	Leu	Ğlu	Asn	Asn	Cys	Met	Arg	Ile	Tyr	Thr	Thr	Cys	Gln	Pro	Ser	T	сÞ	
25		150					155					T60						
97	tcc	tct	qtq	aaa	aat	aag	att	gaa	cgg	ttt	ttc	agg	aag	ata	tat	C	aa	824
88	Ser	Ser	val	Lys	Asn	Lys	Ile	Ğlu	Arg	`Phe	Phe	Arg	Lys	Ile	Tyr	G.	LII	
89	165					170					1/5					Τ.	50	0.70
0.1	+++	cta	ttt	cct	ttc	cat	gaa	gat	aat	gaa	aaa	gat	ctc	ccc	ato	a	gt	872
92	Phe	Leu	Phe	Pro	Phe	His	Glu	Asp	Asn	Glu	Lys	Asp	Leu	Pro	Tre	5	er	
93					185					190					190			000
95	αaa	aag	ctc	att	gag	gaa	gat	gca	caa	ttg	acc	caa	atg	gag	gat	. g	tg	920
96	Ğlu	Lys	Leu	Ile	Glu	Glu	Asp	Ăla	Gln	Leu	Thr	Gln	Met	GIU	Asp	V	aı	
97				200					205					210				0.00
99	ttc	agc	cag	ttg	act	gtg	gat	gtg	aat	tct	ctc	ttt	aac	agg	agt	. t	TT -	968
10	0 Ph	e Se	r Gl	n Le	u Th	r Va	l As	p Va	l As	n Se	r Le	u Ph	e As	n AI	g se	er	Pne	
10	1		21	.5				22					22			_	.	1016
10	3 aa	c gt	c tt	c ag	a ca	g at	g ca	g ca	a ga	g tt	t ga	c ca	g ac	ד דנ	T Ca	la 	Com	1010
10	4 As	n Va	l Ph	e Ar	g Gl	n Me		n Gl	n Gl	u Ph	e As	p GI	n Tn	rPr	ie Gi	.11	ser	
10	5	23	0				23					24					aat	1064
10	7 ca	t tt	.c at	a to	a ga	t ac	a ga	c ct	a ac	t ga	g cc	t ta	C LL	ום בו	L CC	a.	90L	1004
10	8 Hi	s Ph	e Il	.e Se	r As			p Le	u Th	r Gi	u Pr	о ту	T PI	e Pi	ie Pi	.0	260	
10	9 24	5				25	0				25							1112
11	1 tt	c to	t aa	ıa ga	g co	g at	g ac	a aa	a gc	a ga	t ct	t ga	g ca	a Ly	ji Lig	99	yac Nan	1112
11	2 Ph	e Se	er Ly	s Gl	u Pr	o Me	t Th	r Ly	s Al	a As	р Ге	u GI	u Gı	n Cy	/S II	. P	ASP	
11	.3				26	5				. 27	0					75 -+	+ = +	1160
11	.5 at	t co	c aa	ic tt	c tt	c ca	g ct	g tt	t tg	t aa	ד דד	.c ag	r gu	.0 .0	c at	- L A	Tur	1100
11	6 Il	e Pr	o As			e Gl	n Le	u Ph	е су	s as	n Pn	e se	EL AC	יר סנ די	90	LE	TYL	
11	.7			28	30				28								σat.	1208
11	.9 ga	a ag	jt gt	c ag	ıt ga	a ac	a at	t ac	t aa	g at	g ct	g ac	ig go	a a	La yo	ia Lis	yac Nen	
	0 Gl	u Se			er Gl	u Th	ır II	e Th	т гу	s me	т те	ւս Իչ	S AJ	.a 1.	LE G.	Lu	vsh	
			20	95				30)5				1056
12	21		2.													~2	aac	เมาท
1.2) 3 ++	a co	ra aa	аа са	ia ga	c aa	a go	t cc	t ga	c ca	c gg	a 99	JC CI	g a	LL L	ca	aag Lve	1256
12 12	23 tt 24 Le	u Pi	ca aa	аа са	a ga Ln As	c aa sp Ly	s Al	a Pr	t ga o As	с са р Ні	c gg s Gl	y Gl	га ге	eu I	le S	ca er	aag Lys	1236
12 12	3 tt 24 Le	u Pi 31	ca aa co Ly	aa ca ys Gl	Ln As	р Гу	's A] 31	a Pr	o As	p Hi	s Gl	y G1. 32	50 ГА Ге	eu 1.	re se	er	гуѕ	1304

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/722,544A

DATE: 03/25/2002
TIME: 12:43:36

Input Set : A:\07334-362001.txt

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131	ttg	tca	aga	tgt	ttc	aaa	ttt	cat	gaa	aaa	tgc	caa	aaa -	tgt	cag	gct	1352
132	Leu	Ser	Arg	Cys		Lys	Phe	His	Glu		Cys	GIn	Lys	Cys	Gln	Ата	
133					345					350					355		3.400
135	cac	cta	tct	gaa	gac	tgt	cct	gat	gta	cct	gct	ctg	cac	aca	gaa	tta -	1400
136	His	Leu	Ser		Asp	Cys	Pro	Asp	Val	Pro	Ala	Leu	His	Thr	Glu	Leu	
137				360					365					370			1 4 4 0
139	gac	gag	gcg	atc	agg	ttg	gtc	aat	gta	tcc	aat	cag	cag	tat	ggc	cag	1448
140	Asp	Glu	Ala	Ile	Arg	Leu	Val		Val	Ser	Asn	GIn	GIn	Tyr	Gly	GIN	
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144	Ile	Leu	Gln	Met	Thr	Arg		His	Leu	GIU	Asp	Thr	Ата	туг	Leu	Val	
145		390					395					400		~~~	224	a2.a	1544
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	Ala	Pro	Glu	Thr		Ile	Ile	Pne	Asn		TTE	GIII	νат	val	Pro 435	AIG	
153					425					430			-+-	a+~		a20	1640
155	att	cat	gaa	gga	aat	att	tcc	aaa	caa	gat	gaa	aca	aly	Mot	aca	yac Nan	1040
	Ile	His	Glu		Asn	IIe	Ser	ьys		Asp	GIU	THE	met	450	Thr	ASP	
157				440					445		a+ a	224	2+0		att	a a a	1688
159	tta	agc	att	ctg	cct	tcc	tct	aat	TTC	aca mb~	TOU	aay	TIO	Dro	ctt	Glu	1000
	Leu	Ser		Leu	Pro	ser	ser		Pne	TIII	ьeu	гуз	465	PIO	Leu	Giu	
161			455					460	-++	~~~	+20	at a		aca.	222	act	1736
163	gaa	agt	gct	gag	agt	tct	aac	Dho	Tlo	990	Tur	y ta	7721	λla	aaa	Δla	1,30
	GLu		Ala	GIU	ser	ser		Pne	116	СТУ	тйт	480		AIG	Lys	AIU	
165		470					475	+++	222	200	+~~			atc	taat	gcatcc	1789
167	cta	cag	cat	דננ	aag	gaa	Cat	Dha	Tuc	mbr.	Trn	Laa	gaag	acc	cuuc	gcatcc	1,05
		GIn	HIS	Pne	гàг	490	His	Pile	гуу	TIIT	495						
169	485			+			tata:	++0=	t at	aaaa		gaa	atcc	taa	aata	aaaaag	1849
1/1	tat	atcc	agt (tagu	ayaa	uu a a+ +	aasa	rasa	a ta	yyya tatt	aact	ata	tact	atα	aagt.	actctt	1909
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174	agu	ctac	LLA	22+0	yaat 2220	yy c at a		ntat	t ac	attt	cato	ata	catt	agt.	agtt	ctttgt	2029
							acct		L uc	accc	cucy	. 9	0400			,-	2055
				D NO		ac c	accc	u									
				H: 4													
		2> T))												
					Hom	o sa	pien	S									
				NCE:		0 54	PC	_									
183	Mot	Tare	Tle	Lvs	Ala	Glu	Lvs	Asn	Glu	Glv	Pro	Ser	Arq	Ser	Trp	Trp	
184	1	Ly 3	110	_13	5		-10			10					15	-	
185		Len	Hig	Trn	Glv	Asp	Ile	Ala	Asn		Ser	Glv	Asn	Met	Lys	Pro	
186	OTII	<u> </u>		20	1	P			25			-		30	-		
187	Pro	Len	Leu		Phe	Ile	Val	Cys		Leu	Trp	Leu	Lys	Asp	Ser	His	
188			35					40		_	-		45	-			
189	Cvs	Ala		Thr	Trp	Lvs	Asp		Thr	Ala	Ile	Ser	Glu	Asn	Leu	Lys	
_00	~ ₁ 5						- 2										

RAW SEQUENCE LISTING DATE: 03/25/2002 PATENT APPLICATION: US/09/722,544A TIME: 12:43:36

Input Set : A:\07334-362001.txt

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192		FIIE	PET	GIU	V U I	70	O_u			•	75				-	80
103	λla	Τ.Δ11	ጥከዮ	Glv	Tle		Gln	Met	Lys	Ile	Met	Met	Glu	Arg	Lys	Glu
194	на	пец	1111	GLY	85	1,5	01		-10	90				-	95	
105	Lare	Glu	Hic	Thr		Leu	Met	Ser	Thr		Lvs	Lvs	Cys	Arg	Glu	Glu
196	пуз	GIU	1113	100	11011	Dou			105		-1-		•	110		
107	T.37 C	Gln	Glu		Leu	Lvs	Leu	Leu	Asn	Glu	Val	Gln	Glu		Leu	Glu
198		GIII	115					120					125			
199	Glu	Glu		Ara	Leu	Cvs	Arq		Ser	Leu	Ala	Asp	Ser	Trp	Gly	Glu
200		130		,		- 4	135					140				
201	Cvs	Ara	Ser	Cvs	Leu	Glu	Asn	Asn	Cys	Met	Arg	Ile	Tyr	Thr	Thr	Cys
202	145					150					155					160
203	Gln	Pro	Ser	Trp	Ser	Ser	Val	Lys	Asn	Lys	Ile	Glu	Arg	Phe	Phe	Arg
204					165					170					175	
205	Lys	Ile	Tyr	Gln	Phe	Leu	Phe	Pro	Phe	His	Glu	Asp	Asn	Glu	Lys	Asp
206	_			180					185					190		
207	Leu	Pro	Ile	Ser	Glu	Lys	Leu	Ile	Glu	Glu	Asp	Ala	Gln	Leu	Thr	Gln
208			195					200					205	_	_	_1
209	Met	Glu	Asp	Val	Phe	Ser		Leu	Thr	Val	Asp	Val	Asn	Ser	Leu	Phe
210		210					215		_	٥.		220		-1	•	a 1
211	Asn	Arg	Ser	Phe	Asn		Phe	Arg	Gln	Met	GIn	GIn	GLu	Pne	Asp	GIN
212	225					230		_	_	_,	235	.	m1	a 1	Dmo	240
213	Thr	Phe	Gln	Ser		Phe	Ile	Ser	Asp	Thr	Asp	ьeu	Thr	GIU	PIO	тут
214				_	245		_		-	250	m1	T	710	7.00	255	Clu
	Phe	Phe	Pro		Phe	ser	ьуs	GIU	Pro	мес	THE	гуѕ	АТа	270	пец	GIU
216			_	260	- 1 -	D	3	Dha	265 Dho	Cln	T OU	Dho	Cvc		Dho	Ser
	Gin	Cys		Asp	тте	Pro	ASII	280	Phe	GTII	ьеu	FIIE	285	VOII	rne	JCI
218	**. 1		275	m	<i>c</i> 1	Cor	17 n 1		Glu	Thr	т1ь	Thr		Met	Len	Lvs
	vaı		тте	туг	Giu	ser	295	per	Giu	1111	116	300	2,5	1100		
220	310	290	C1	λαν	LOU	Dro		Gl n	Asp	Lvs	λla		Asp	His	Glv	Glv
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222	J. D.11	Tlo	Ser	Lvs	Met		Pro	Glv	Gln	Asp	Arq	Gly	Leu	Cys	Gly	Glu
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225	T.e.ii	Asp	Gln	Asn		Ser	Arq	Cvs	Phe	Lys	Phe	His	Glu	Lys	Cys	Gln
226	Lou		0	340			5	_	345	-				350		
227	Lvs	Cvs	Gln	Ala	His	Leu	Ser	Glu	Asp	Cys	Pro	Asp	Val	Pro	Ala	Leu
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230		370					375					380				
231	Gln	Tyr	Gly	Gln	Ile	Leu	Gln	Met	Thr	Arg	Lys	His	Leu	Glu	Asp	Thr
232	385					390					395					400
233	Ala	Tyr	Leu	Val	Glu	Lys	Met	Arg	Gly	Gln	Phe	Gly	Trp	Val	Ser	Glu
234					405					410					415	
235	Leu	Ala	Asn	Gln	Ala	Pro	Glu	Thr	Glu	Ile	Ile	Phe	Asn	Ser	Ile	Gln
236				42	0				42	5				43	0	
237	Val	Val	Pro	Arg	Ile	His	Gļu		Asn	Ile	Ser	Lys	Gln	Asp	Glu	Thr
238			435					440					445	•		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/722,544A

DATE: 03/25/2002
TIME: 12:43:36

Input Set : A:\07334-362001.txt

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258 gcatcttagg aatgacagag ttgcqtccct ctckgttgcc aggctggagt tcagtggcat	180
259 attentaget cactgaagee teaaatteet qqqtteaagt gacceteeya ceteageeee	240
260 ato ago ace too gae tae agt aac age ggg aac atg aag eeg eea ete	288
261 Met Arg Thr Trp Asp Tyr Ser Asn Ser Gly Asn Met Lys Pro Pro Leu	
262 1 5 10 15	226
264 ttg gtg ttt att gtg tgt ctg ctg tgg ttg aaa gac agt cac tgc gca	336
265 Leu Val Phe Ile Val Cys Leu Leu Trp Leu Lys Asp Ser His Cys Ala	
266 20 25 30	384
268 ccc act tgg aag gac aaa act gct atc agt gaa aac ctg aag agt ttt	304
269 Pro Thr Trp Lys Asp Lys Thr Ala Ile Ser Glu Asn Leu Lys Ser Phe 45	
2/0 33	432
272 tot gag gtg ggg gag ata gat gca gat gaa gag gtg aag aag gct ttg	
273 Ser Glu Val Gly Glu Ile Asp Ala Asp Glu Glu Val Lys Lys Ala Leu 274 50 55 60	
274 50 55 60 276 act ggt att aag caa atg aaa atc atg atg gaa aga aaa gag aag gaa	480
277 Thr Gly Ile Lys Gln Met Lys Ile Met Met Glu Arg Lys Glu Lys Glu	
278 65 70 75 80	
280 cac acc aat cta atg agc acc ctg aag aaa tgc aga gaa gaa aag cag	528
281 His Thr Asn Leu Met Ser Thr Leu Lys Lys Cys Arg Glu Glu Lys Gln	
282 85 90 95	
284 gag gcc ctg aaa ctt ctg aat gaa gtt caa gaa cat ctg gag gaa gaa	576
285 Glu Ala Leu Lys Leu Asn Glu Val Gln Glu His Leu Glu Glu Glu	
286 100 105 110	
288 gaa agg cta tgc cgg gag tct ttg gca gat tcc tgg ggt gaa tgc agg	624
289 Glu Arg Leu Cys Arg Glu Ser Leu Ala Asp Ser Trp Gly Glu Cys Arg	
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292 tot tgc ctg gaa aat aac tgc atg aga att tat aca acc tgc caa cct	672
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294 130 135 140	720
296 ago tgg too tot gtg aaa aat aag att gaa cgg ttt tto agg aag ata	720
297 Ser Trp Ser Ser Val Lys Asn Lys Ile Glu Arg Phe Phe Arg Lys Ile	
298 145	768
300 tat caa ttt cta ttt cct ttc cat gaa gat aat gaa aaa gat ctc ccc	, , , ,

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/722,544A

DATE: 03/25/2002 TIME: 12:43:38

Input Set : A:\07334-362001.txt

Output Set: N:\CRF3\03222002\I722544A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 14635,14685,29727,29879,29880,29930,29939,29950,29953,41743
Seq#:7; N Pos. 41754,41758,41764,41778,41781,41796,52480,55325,56658,59051
Seq#:7; N Pos. 59067,59070,59073,59093,59146,59148,59149,59151,59172,59178
Seq#:7; N Pos. 72168,72236,72243,72247,72303,72308,72312